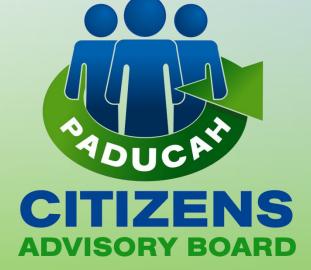
# Paducah Citizens Advisory Board

**DDFO** Presentation

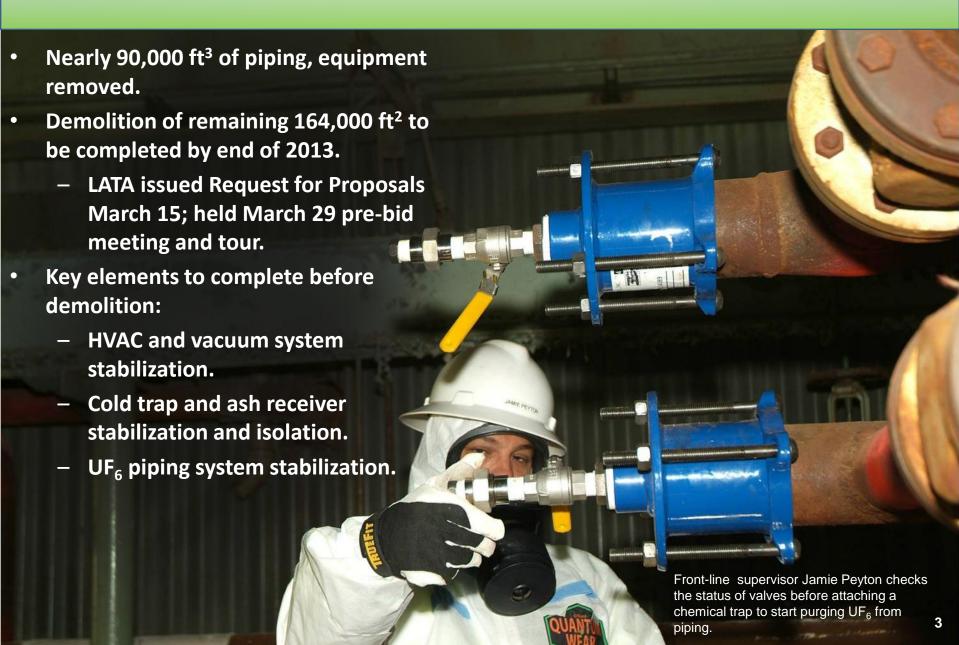
Reinhard Knerr, Paducah Site Lead April 26, 2012



#### **Presentation Agenda**

- Inactive facilities removal
- Groundwater cleanup
- Site Management Plan
- Governor's Health and Safety Awards
- DUF<sub>6</sub> plant update
- Heath Middle School science project
- DOE Science Bowl
- National SSAB Chairs Meeting
- DOE-EM Senior Advisor Dave Huizenga visit
- Recent/upcoming documents

#### **Inactive Facilities Removal: C-410 Feed Plant**



#### **Inactive Facilities Removal: Scale House**

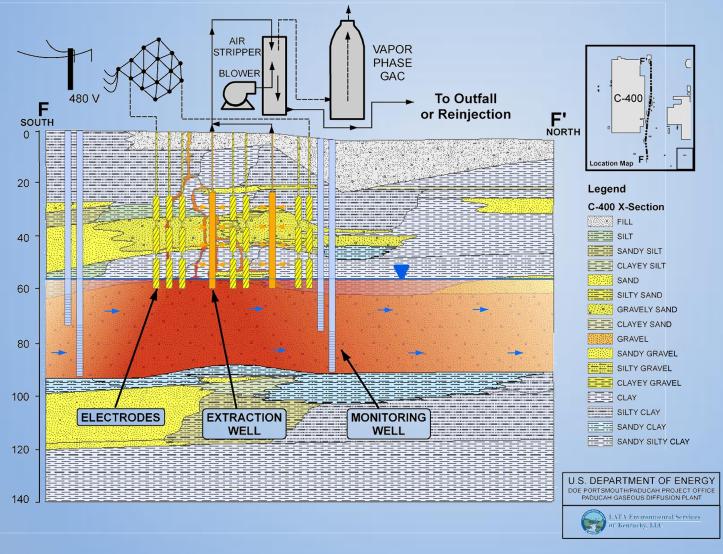


- Crews in late February removed an abandoned railroad scale house in WKWMA southeast of the Paducah plant.
- Scale house was used in 1950s to weigh plant freight.
- Most of the materials were recycled.
- Scale preserved at CAB request.
- Scale house part of >142,000 ft<sup>2</sup> of inactive facilities to be razed through 2014.

# Groundwater Cleanup: Southwest Plume Source Removal

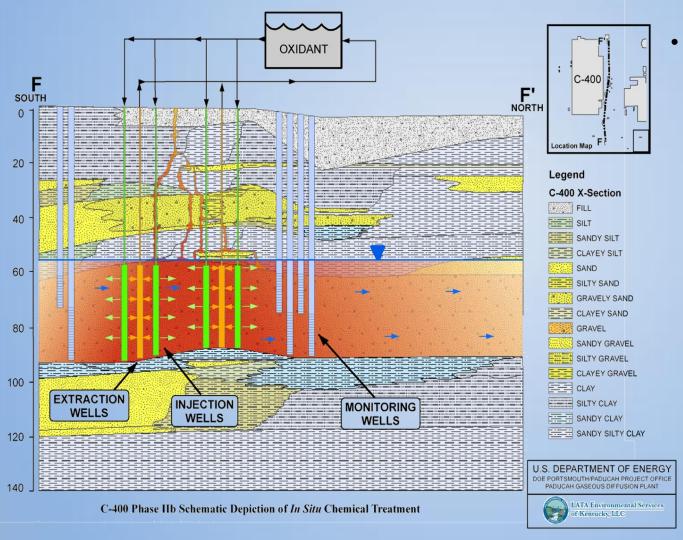


## Groundwater Cleanup: C-400 Source Removal Phase IIa



- Construction of electrical resistance heating system to depth of 60 ft. to start by end of summer for Phase IIa.
- Operation planned for 2013.
- Estimated maximum
   2,500 gals. of TCE remain.

### Groundwater Cleanup: C-400 Source Removal Phase IIb



- ROD amendment being prepared for Phase IIb
  - Potassium
     permanganate to
     be injected 60-100
     ft. deep
  - Chemical oxidation expected to reduce source-based TCE by at least 90%.
  - Estimatedmaximum 4,500gals of TCE remain.
  - Construction to begin in January 2014.

#### **2012 Site Management Plan**

- FFA parties approved
   FY 2012 Site
   Management Plan in
   March.
- Plan sets enforceable milestones for FY 12, 13, 14.
- Incorporates results of written decision on the Burial Grounds Operable Unit formal dispute.
- Key milestone dates added for C-400 Phase IIa and Phase IIb, as well as CERCLA waste-disposal alternatives.



#### **Governor's Health and Safety Award**



- Paducah prime contractors received Kentucky's top health/safety award in March for nearly 5 million combined safework hours.
  - BWCS: 2.5 million
  - LATA KY: 1.25 million
  - SST: 1.08 million
- Labor Secretary
   Mark Brown
   said the winners
   achieve
   productivity
   through safety.

#### Depleted Uranium Hexafluoride (DUF<sub>6</sub>) Plant



- Babcock and Wilcox Conversion Services (BWCS) continues phased startup of conversion operations.
- FY 2012 focus:
  - Achieve around-the-clock, 24/7 operation of all four conversion lines.
  - Safely convert DUF<sub>6</sub> cylinder inventory at design capacity.
- Plant operating one line and working to bring three online.
- About 1,400 metric tons of DUF<sub>6</sub> processed so far in FY 2012.
- Portsmouth-Paducah Project Office reviewing BWCS baseline for accuracy, completeness.

#### **Heath MS Science Project**

### Heath Middle School gifted-talented science project

- Groups made presentations April 20 to DOE on how to reduce levels of zinc and tiny organism toxicity in outfall near DUF<sub>6</sub> plant.
- 26 students spent school year trying to determine how to resolve the zinc issue.
- DOE, LATA Kentucky, UK College of Engineering-Paducah, and KDEP mentors assigned to groups, who made several plant visits and worked after school.



Heath Middle School students Ashley Reagan and Evan Shepherd (background) test for zinc in solution, using kits provided by a grant through the UK College of Engineering-Paducah.

#### **DOE Science Bowl**

### Third Annual Regional DOE Science Bowl in Paducah

- Calloway County
   Middle, Lone Oak
   High compete
   nationally April 26 30.
- Both won regional competition in March.
- DOE, contractors judged regionals.
- DOE, UK-Paducah
   Campus, WKCTC,
   Chamber Business Education
   Partnership
   sponsored.
- 10 businesses contributed.

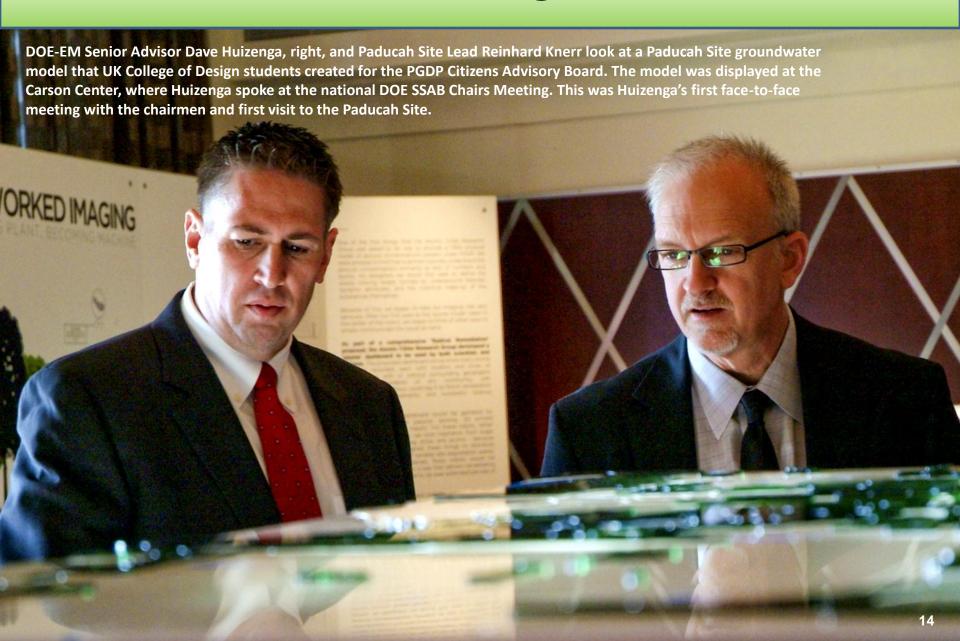


Coach Scott Pile congratulates his Calloway County Middle School team during the finals of the Department of Energy's Regional Science Bowl in Paducah. From left are team members Jaewon Kang (partially shown), Claire Umstead, Sam Morehead, and Martin Mikulcik.

#### **National SSAB Chairs Meeting**



#### **Dave Huizenga Visit**



#### **Dave Huizenga Visit**



Left, LATA Kentucky Projects Manager Craig Jones greets EM Senior Advisor Dave Huizenga during Huizenga's first tour of the Paducah Site. Huizenga was briefed on the C-333 Process Building, Feed Plant cleanup, C-400 Source Removal Project, nickel ingots, burial grounds, and the DUF<sub>6</sub> Conversion Facility.

Bottom left, Huizenga and PPPO Manager Bill Murphie view the Paducah CAB groundwater model displayed at the SSAB Chairs Meeting.

Bottom right, Huizenga (upper left center) addresses SSAB chairmen.





#### **Recent and Upcoming Documents**

- Groundwater OU
- Revised D2 Southwest Plume Remedial Design Work Plan due April 27
- D1 C-400 Phase IIa Remedial Action Work Plan due in May
- SW Plume 30% Remedial Design Report due in May
- ❖ D2 C-400 Phase IIb Proposed Plan due in early June
- Burial Grounds OU
  - Feasibility Study (FS) SWMUs 5-6 submitted Feb. 29
  - Revised SWMU 4 Sampling and Analysis Plan submitted April 24
  - FS SWMUs 2, 3, 7, 30 planned submittal April 29
- CERCLA Waste Disposal Alternatives RI/FS Report
- planned submittal in early May
- D2 Surface Water OU RI/FS Work Plan
- planned submittal June 15
- Soils OU Remedial Investigation Report
- planned submittal Aug. 15



# Discussion...



